Satellite Communication

COURSE DESCRIPTION

This one-day course provides an introduction to modern satellite communication technologies. It covers geostationary satellites, low and medium earth orbit satellite constellations, and the latest 5G over satellite and non-terrestrial networks.

The course builds the technology foundation that teams need for day-to-day operational work or research programs.

WHO SHOULD ATTEND?

Telecommunication industry professionals, ICT policy workers, marketing executives, academics, and stakeholders requiring an understanding of how satellite communication works.

COURSE OBJECTIVES

By the end of this course participants will be able to:

- Explain the principles of satellite communication
- Describe the evolution of satellite communication technologies
- Identify the opportunities and challenges for satellite communication

SOME COURSE BENEFITS

- Provide basic technical support for satellite communication systems
- Hold credible conversations around satellite technology with peers and customers
- Plan a satellite communication link and determine which frequency band to use
- Gain insights into the economic development and business opportunities offered by satellite technologies

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FORMAT

1 day, interactive classroom-based or live online via Zoom.

Maximum attendees: 12 per course.

CONTENT

Morning

- Principles of satellite communication and orbits
- Architecture of satellite communication
- Radio spectrum used for satellite communication
- International regulation of satellite communication
- Use cases for satellite technologies

Afternoon

- Geostationary satellite
- Non-geostationary satellite constellation
- 5G over satellite
- Fixed satellite
- High throughput satellite
- Mobile satellite
- Broadcasting satellite

Assessment (Optional for in-house courses)

- Instructor led interactive quizzes
- Multiple choice written test

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